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Job No.: CQCE/BBMP/MKN/WO/5/2020-2021

Date: 06.05.2020

TEST REPORT ON CEMENT

Client : **Deputy Conservator of Forests Lakes,** BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of Work :Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : April - 2020

Date of Testing : 04.05.2020 to 06.05.2020

SLNo	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1.5 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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AE) verify & put up

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road., Bangalore - 560 056.
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Job No.: CQCE/BBMP/MKN/WO/5/2020-2021 Date : 11.05.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Deputy Conservator of Forests Lakes,** BBMP, Bangalore.

Agency : **Sri. Mahesh K N,** Contractor, Bangalore.

Name of Work :Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.

Date of Testing : 11.05.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	76	7.60	7.60	92.4	90-100
2.36	112	11.20	18.80	81.2	75-100
1.18	186	18.60	37.40	62.6	55-90
600 Micron	47	4.70	42.10	57.9	35-59
300 Micron	303	30.30	72.40	27.6	8-30
150 Micron	181	18.10	90.50	9.5	0-10

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Job No.: CQCE/BBMP/MKN/WO/5/2020-2021 Date : 04.05.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Deputy Conservator of Forests Lakes,** BBMP, Bangalore.
Agency : **Sri. Mahesh K N,** Contractor, Bangalore.
Name of Work :Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.

Date of Testing : 04.05.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	212	1.41	1.41	98.59	95-100
20	8399	55.99	57.41	42.33	30-70
10	3266	21.77	79.18	20.82	10-35
4.75	2575	17.17	96.35	3.65	0-5

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TEST REPORT ON COARSE AGGREGATES

Client : **Deputy Conservator of Forests Lakes,** BBMP, Bangalore.
Agency : **Sri. Mahesh K N,** Contractor, Bangalore.
Name of Work :Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.

Date of Testing : 04.05.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	82	1.6	1.6	98.4	95-100
10	3016	60.3	62.0	38.0	25-55
4.75	1521	30.4	92.4	7.6	0-10

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Job No.: CQCE/BBMP/MKN/WO/5/2020-2021 Date : 06.05.2020

ATTERBERG LIMITS TEST FOR WMM

Client : **Deputy Conservator of Forests Lakes,** BBMP, Bangalore.
Agency : **Sri. Mahesh K N,** Contractor, Bangalore.
Name of Work :Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985
Date of Testing : 04.05.2020 to 06.05.2020
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/MKN/WO/5/2020-2021 Date: 04.05.2020

Aggregate Impact Value

Client	**: Deputy Conservator of Forests Lakes,** BBMP, Bangalore.
Agency	**: Sri. Mahesh K N,** Contractor, Bangalore.
Name of the Work	:Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	04.05.2020

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	301	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.61	22.02	**21.82**

Comments:
→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CQCE/BBMP/MKN/WO/5/2020-2021 Date : : 04.05.2020

GRADATION FOR WMM

Client : **Deputy Conservator of Forests Lakes,** BBMP, Bangalore.
Agency : **Sri. Mahesh K N,** Contractor, Bangalore.
Name of Work :Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 04.05.2020
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	311	311	3.1	96.9	95-100
22.4	2505	2816	28.2	71.8	60-80
11.2	2624	5440	54.4	45.6	40-60
4.75	1357	6797	68.0	32.0	25-40
2.36	1264	8061	80.6	19.4	15-30
0.600	391	8452	84.5	15.5	8-22
0.075	1102	9554	95.5	4.5	0-5

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Job No.: CQCE/BBMP/MKN/WO/5/2020-2021 Date : 04.05.2020

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Deputy Conservator of Forests Lakes,** BBMP, Bangalore.
Agency	: **Sri. Mahesh K N,** Contractor, Bangalore.
Name of Work	:Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	04.05.2020

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.4	10.3	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.5	13.8	
	Combined Flakiness & Elongation index	23.90	24.1	

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Job No.: CQCE/BBMP/MKN/WO/5/2020-2021 21.05.2020

TEST REPORT ON MECHANICAL PROPORTIES OF CHAIN LINK FENCING, M.S.BLOCK PIPE, M.S. RECTANGULAR POLE

Client : **Deputy Conservator of Forests Lakes,** BBMP, Bangalore.
Agency : **Sri. Mahesh K N,** Contractor, Bangalore.
Name of Work :Development of Green Spaces and Parks to Vin Field Layout main road park Ward-5 Jakkur Yelahanka, BBMP, Bangalore.

Sample Identification: Chain link fencing, MS-Block Pipe 38MM dia, M.S. Rectangular Pole
Reference to BIS code: IS 1161:1998 Steel for Structural Purposes-Specification
Date of test: 20.05.2020 to 21.05.2020

Description of Sample	Description	Results	Required as per IS 1161-1998
Chain link fencing 50 mm of 8 Gauge	Diameter	3.36 mm	3.15mm
	Measured mesh	size 53 mm	50 ± 3 mm

Description of Sample	Description	Results	Required as per IS 1161-1998
MS-Block Pipe 38MM dia of heavy guage of 14	Mass	2.26 Kg/m	
	Yield Stress	227 N/mm2 Mpa	210 Mpa min
	Tensile Strength	341N/mm2 Mpa	330 Mpa min
	Percent	25	20% min

Description of Sample	Description	Results	Required as per IS 2062:2006, 608:1989
M.S. Rectangular Pole of 2 equal angles 65mm X 65mm X 6mm	Mass	5.88 Kg/m	5.8
	Yield Stress	178 N/mm2 Mpa	165 Mpa min
	Tensile Strength	305N/mm2 Mpa	290 Mpa min
	Percent	25	23% min

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